



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification <sup>7</sup> : <b>C07K 14/47, A61K 38/17, 31/00, 7/48, A61P 17/02</b></p>	<p><b>A3</b></p>	<p>(11) International Publication Number: <b>WO 00/31238</b></p> <p>(43) International Publication Date: 2 June 2000 (02.06.00)</p>
<p>(21) International Application Number: PCT/US99/27907</p> <p>(22) International Filing Date: 24 November 1999 (24.11.99)</p> <p>(30) Priority Data: 60/109,891 25 November 1998 (25.11.98) US 60/120,549 17 February 1999 (17.02.99) US</p> <p>(71) Applicant (for all designated States except US): GENETICA, INC. [US/US]; David Beach, 100 Bungtown Road, Cold Spring Harbor, NY 11724 (US).</p> <p>(72) Inventors; and (75) Inventors/Applicants (for US only): HANNON, Gregory, J. [US/US]; 92 Sammis Street, Huntington, NY 11743 (US). BEACH, David, H. [GB/US]; 19 Woodland Drive, Huntington Bay, NY 11743 (US).</p> <p>(74) Agents: VINCENT, Matthew, P. et al.; Foley, Hoag &amp; Eliot, LLP, One Post Office Square, Boston, MA 02109 (US).</p>		<p>(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p><b>Published</b> <i>With international search report.</i></p> <p>(88) Date of publication of the international search report: 9 November 2000 (09.11.00)</p>
<p>(54) Title: METHODS AND REAGENTS FOR INCREASING PROLIFERATIVE CAPACITY AND PREVENTING REPLICATIVE SENESECE</p> <div> </div> <p>(57) Abstract</p> <p>The present invention relates to methods and reagents for extending the life-span, e.g. the number of mitotic divisions, of a cell. In general, the subject method relies on the activation of a telomerase activity and inhibition of one or both of an Rb/p16 pathway or a p53 pathway.</p>		

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# INTERNATIONAL SEARCH REPORT

International Application No <b>PCT/US 99/27907</b>		
<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 C07K14/47 A61K38/17 A61K31/00 A61K7/48 A61P17/02		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07K A61K		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, BIOSIS		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y,P	WO 99 35243 A (COLD SPRING HARBOR LABORATORY) 15 July 1999 (1999-07-15) cited in the application claims 1-52	1,2,5-48
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<div style="display: flex; justify-content: space-between;"> <span><input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.</span> <span><input checked="" type="checkbox"/> Patent family members are listed in annex.</span> </div>		
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Date of the actual completion of the international search <div style="text-align: center; font-weight: bold;">7 July 2000</div>		Date of mailing of the international search report <div style="text-align: center; font-weight: bold;">20/07/2000</div>
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer <div style="text-align: center; font-weight: bold;">Siatou, E</div>

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